### SEQUENCE LISTING

### (1) GENERAL INFORMATION



- (i) APPLICANT: ELAZAR RABBANI
  JANNIS G. STAVRIANOPOULOS
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- (ii) TITLE OF INVENTION: NOVEL PROPERTY EFFECTING AND/OR PROPERTY EXHIBITING COMPOSITIONS FOR THERAPEUTIC AND DIAGNOSTIC USE
- (iii) NUMBER OF SEQUENCES: 42
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: ENZO THERAPEUTICS, INC.
  - (B) STREET:

C/O ENZO BIOCHEM, INC.

527 MADISON AVENUE,

9<sup>TH</sup> FLOOR

- (C) CITY:
- NEW YORK
- (D) STATE: NY
- (E) COUNTRY:
  - USA
- (F) ZIP:
- 10022
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE:

3.5" Micro Floppy Disk. 1.44 KB

- STORAGE
- (B) COMPUTER: IBM PC/XT/AT, IBM PS/2 OR COMPATIBLES
- (C) OPERATING SYSTEM: PC-DOS
- (D) SOFTWARE: MICROSOFT WORD \_\_\_ ASCII TEXT (DOS)
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 08/978,632
  - (B) FILING DATE: 25-NOVEMBER-1997
  - (C) CLASSIFICATION: Not Yet Known
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: FEDUS, RONALD C.
  - (B) REGISTRATION NUMBER: 32,567
  - (C) REFERENCE/DOCKET NUMBER: ENZ-53(C)
- (ix) TELECOMUNICATION INFORMATION:
  - (A) TELEPHONE: (212) 583-0100
  - (B) TELEFAX:
- (212) 583-0150
- (2) INFORMATION FOR SEQ ID NO: 1
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH:

20 amino acids

- (B) TYPE:
- amino acid
- (C) STRANDEDNESS:
- single

- (D)
- TOPOLOGY: linear



### SEQ ID: PAGE 2

MOLECULE TYPE: peptide (ii) HYPOTHETICAL: NO (iii) 1: SEQ ID NO: SEQUENCE DESCRIPTION: (ix) Gly Phe Phe Gly Ala Ile Ala Gly Phe Leu Glu Gly Gly Trp Glu Gly Met Ile Ala Gly 20 INFORMATION FOR SEQ ID NO. 2: (3) SEQUENCE CHARACTERISTICS: (i) 20 base pairs LENGTH: (A) nucleic acid (B) TYPE: STRANDEDNESS: double (C) linear TOPOLOGY: (D) MOLECULE TYPE: DNA (genomic) (ii) HYPOTHETICAL: NO (iii) 2: SEQUENCE DESCRIPTION: SEQ ID NO: (ix) TGCTCTCTAA GGGTCTACTC 20 INFORMATION FOR SEQ ID NO. 3: (4) SEQUENCE CHARACTERISTICS: (i) 15 base pairs LENGTH: (A) nucleic acid TYPE: (B) double STRANDEDNESS: (C) linear TOPOLOGY: (D) MOLECULE TYPE: DNA (genomic) (ii) HYPOTHETICAL: NO (iii) 3: SEQ ID NO: SEQUENCE DESCRIPTION: (ix) CTCTAAGGTA AATAT 15 INFORMATION FOR SEQ ID NO. 4: (5) SEQUENCE CHARACTERISTICS: (i) 16 base pairs LENGTH: (A) nucleic acid TYPE: (B) double STRANDEDNESS: (C) linear TOPOLOGY: (D)

(ii)

		(iii)	HYPOTHETICAL: NO	
		(ix)	SEQUENCE DESCRIPTION: SEQ ID NO:	4:
TGTATTTT 16	AG	ATTCAA		
(6)	INF	ORMATIO	N FOR SEQ ID NO. 5:	
		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 19 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
		(ii)	MOLECULE TYPE: DNA (genomic)	
		(iii)	HYPOTHETICAL: YES	
		(ix)	SEQUENCE DESCRIPTION: SEQ ID NO:	5:
TGCTCTC 19	TAA	GGTAAA	TAT	
(7)	IN	FORMATIC	ON FOR SEQ ID NO. 6:	
		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 19 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
		(ii)	MOLECULE TYPE: DNA (genomic)	
		(iii)	HYPOTHETICAL: YES	
		(ix)	SEQUENCE DESCRIPTION: SEQ ID NO:	6
TGTATT		G GGTCTA	ACTC	
(8)	Γ	NFORMATI	ION FOR SEQ ID NO. 7:	
		(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 19 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
		(ii)	MOLECULE TYPE: mRNA	

MOLECULE TYPE: DNA (genomic)

- HYPOTHETICAL: YES (iii)
- SEQ ID NO: 7: SEQUENCE DESCRIPTION: (ix)

UGCUCUCUAA GGUAAAUAU 19

- INFORMATION FOR SEQ ID NO. 8: (9)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

19 base pairs

- TYPE: (B)
- nucleic acid

single

- STRANDEDNESS: (C)
- TOPOLOGY: (D)
- linear
- MOLECULE TYPE: mRNA (ii)
- HYPOTHETICAL: YES (iii)
- 8: SEQUENCE DESCRIPTION: SEQ ID NO: (ix)

UGUAUUUUAG GGUCUACUC 19

### (10) INFORMATION FOR SEQ ID NO. 9:

- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH:

20 base pairs

- (A) TYPE:
- nucleic acid
- (B) STRANDEDNESS: (C)
- single
- TOPOLOGY: (D)
- linear
- MOLECULE TYPE: mRNA (ii)
- HYPOTHETICAL: YES (iii)
- 9: SEQUENCE DESCRIPTION: SEQ ID NO: (ix)

UGCUCUCUAA GGGUCUACUC 20

### (11) INFORMATION FOR SEQ ID NO. 10:

- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH: (A)

- (B) TYPE:
- nucleic acid
- STRANDEDNESS: (C)
- single
- TOPOLOGY: linear (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)



SEQ ID NO: 10: SEQUENCE DESCRIPTION: (ix) GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGC

# (12) INFORMATION FOR SEQ ID NO. 11:

- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH: (A)

55 base pairs

- (B) TYPE:
- nucleic acid
- STRANDEDNESS: (C)

single

- TOPOLOGY: linear
- (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

11:

GACTAGTTGG TCTCGTCTCT TTTTTGGAGG AGTGTCGTTC. TTAGCGATGT TAATC 55

## (13) INFORMATION FOR SEQ ID NO. 12:

- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH: (A)

46 base pairs

- nucleic acid
- TYPE: (B)
- single
- STRANDEDNESS: (C) TOPOLOGY: (D)
  - linear
- (ii)
  - MOLECULE TYPE: other nucleic acid (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

12:

GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC

### (14) INFORMATION FOR SEQ ID NO. 13:

(ii)

- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH: (A)

- (B) TYPE:
- nucleic acid
- STRANDEDNESS: (C)
- single
- linear TOPOLOGY: (D)
- MOLECULE TYPE: other nucleic acid (A) Description: /desc = "oligonucleotide"



- HYPOTHETICAL: YES (iii)
- SEQ ID NO: SEQUENCE DESCRIPTION: (ix)

GACTAGTGGT CTCCCCTTAG AGAGCATGTC AGC

# (15) INFORMATION FOR SEQ ID NO. 14:

- SEQUENCE CHARACTERISTICS: (i)
  - (A) LENGTH:

33 base pairs

(B) TYPE: nucleic acid

STRANDEDNESS: (C)

single

- TOPOLOGY: (D)
- linear
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

14:

13:

GGAATTCGGT CTCGGGTCTA CTCGGTGGCG AGG 33

# (16) INFORMATION FOR SEQ ID NO. 15:

- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH: (A)

27 base pairs nucleic acid

TYPE: (B)

- (C)

single

TOPOLOGY: linear (D)

STRANDEDNESS:

- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

15:

### GACTAGTCGT TACGCGAACG CAAAGTC 27

- INFORMATION FOR SEQ ID NO. 16: (17)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

36 base pairs

(B) TYPE: nucleic acid

- STRANDEDNESS: (C)
- single
- TOPOLOGY: linear (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"



- SEQ ID: PAGE 7
  - HYPOTHETICAL: YES (iii)
  - SEQ ID NO: SEQUENCE DESCRIPTION: (ix)

GGAATTCGTC TCTAAGGTAA ATATAAAATT TTTAAG 36

- INFORMATION FOR SEQ ID NO. 17: (18)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

40 base pairs

(B)

nucleic acid

linear

(C).

single STRANDEDNESS:

TOPOLOGY: (D)

TYPE:

- MOLECULE TYPE: other nucleic acid (ii) · (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

17:

16:

GACTAGTCGT CTCTGACCCT AAAATACACA AACAATTAGA

- INFORMATION FOR SEQ ID NO. 18: (19)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

92 base pairs

TYPE: (B)

nucleic acid

double

- (C)
- STRANDEDNESS:
- TOPOLOGY: linear (D)
- MOLECULE TYPE: DNA (genomic) (ii)
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

18:

GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGCT AAGAACGACA

CTCCTCCAAA AAAGAGACGA GACCAACTAG TC 92

- INFORMATION FOR SEQ ID NO. 19: (20)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

46 base pairs

TYPE: (B)

nucleic acid double

STRANDEDNESS: (C) TOPOLOGY:

(D)

linear



- MOLECULE TYPE: DNA (genomic) (ii) HYPOTHETICAL: YES (iii) 19: SEQ ID NO: SEQUENCE DESCRIPTION: (ix) GGAATTCGTC TCGGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC INFORMATION FOR SEQ ID NO. 20: (21) SEQUENCE CHARACTERISTICS: (i) 106 base pairs LENGTH: (A) nucleic acid TYPE: (B) STRANDEDNESS: double (C) linear TOPOLOGY: (D) MOLECULE TYPE: DNA (genomic) (ii) HYPOTHETICAL: YES (iii) 20: SEO ID NO: SEQUENCE DESCRIPTION: (ix) GGAATTCGTC TCGAGCTCTG ATCACCACCA TGGACACGAT TAACATCGCT **AAGAACGACA** CTCCTCCAAA AAAGAGAAAG GTAAAATTCT CTGACATCGA ACTGGC 106 INFORMATION FOR SEQ ID NO. 21: (22)SEQUENCE CHARACTERISTICS: (i) 50 base pairs LENGTH: (A) nucleic acid TYPE: (B) double STRANDEDNESS: (C) TOPOLOGY: linear (D) MOLECULE TYPE: DNA (genomic) (ii) HYPOTHETICAL: NO (iii) SEQUENCE DESCRIPTION: SEQ ID NO: (ix) ATGGACACGA TTAACATCGC TAAGAACGAC TTCTCTGACA TCGAACTGGC
  - INFORMATION FOR SEQ ID NO. 22: (23)

- SEQUENCE CHARACTERISTICS: (i) 77 base pairs
  - LENGTH: (A)
  - nucleic acid (B) TYPE:
  - double STRANDEDNESS: (C)
  - TOPOLOGY: linear (D)

- MOLECULE TYPE: DNA (genomic) (ii)
- HYPOTHETICAL: YES (iii)
- 22: SEQ ID NO: SEQUENCE DESCRIPTION: (ix)

ATGGACACGA TTAACATCGC TAAGAACGAC ACTCCTCCAA AAAAGAGAAA **GGTAAAATTC** 60

TCTGACATCG AACTGGC 77

- INFORMATION FOR SEQ ID NO. 23: (24)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

69 base pairs

(B) TYPE: nucleic acid

- STRANDEDNESS: (C)
  - single
- TOPOLOGY: (D)
- linear
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

23: SEQ ID NO:

24:

GATCATTAGA CCAGATCTGA GCCTGGGAGC TCTCTGGCTA ACTAGGGAAC 60 **CCACTGCTTA** 

**AGCCTCAAG** 69

- INFORMATION FOR SEQ ID NO. 24: (25)
  - SEQUENCE CHARACTERISTICS: (i)
    - (A)

LENGTH:

69 base pairs

TYPE: (B)

nucleic acid

- STRANDEDNESS: (C)
- single
- TOPOLOGY: linear (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEO ID NO: SEQUENCE DESCRIPTION: (ix)

GATCCTTGAG GCTTAAGCAG TGGGTTCCCT AGTTAGCCAG AGAGCTCCCA **GGCTCAGATC** 

**TGGTCTAAT** 



- SEQUENCE CHARACTERISTICS: (i)
  - (A) LENGTH:

61 base pairs

- TYPE: (B)
- nucleic acid
- (C) STRANDEDNESS:

single

- TOPOLOGY: (D) linear
- (ii) MOLECULE TYPE: other nucleic acid (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

25:

GATCACCTTA GGCTCTCCTA TGGCAGGAAG AAGCGGAGAC AGCGACGAAG ACCTCCTCAA

G

61

- INFORMATION FOR SEQ ID NO. 26: (27)
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH:

61 base pairs

- (B) TYPE:
- nucleic acid
- (C) STRANDEDNESS:
- single
- (D) TOPOLOGY: linear
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

26:

GATCCTTGAG GAGGTCTTCG TCGCTGTCTC CGCTTCTTCC TGCCATAGGA **GAGCCTAAGG** 60

T

61

- (28)**INFORMATION FOR SEQ ID NO. 27:** 
  - (i) SEQUENCE CHARACTERISTICS:

TYPE:

(A) LENGTH:

- (B)
- nucleic acid single
- STRANDEDNESS: (C)
- TOPOLOGY: linear (D)
- MOLECULE TYPE: other nucleic acid (ii)
  - (A) Description: /desc = "oligonucleotide"



- HYPOTHETICAL: YES (iii)
- 27: SEQ ID NO: SEQUENCE DESCRIPTION: (ix)

GATCATAGTG AATAGAGTTA GGCAGGGATA CTCACCATTA TCGTTTCAGA 60 **CCCACCTCCC** 

AG

62

- INFORMATION FOR SEQ ID NO. 28: (29)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

62 base pairs

TYPE: (B)

nucleic acid

- STRANDEDNESS: (C)
  - single
- TOPOLOGY: (D)
- linear
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

28:

GATCCTGGGA GGTGGGTCTG AAACGATAAT GGTGAGTATC CCTGCCTAAC **TCTATTCACT** 

ΑT

62

- INFORMATION FOR SEQ ID NO. 29: (30)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

30 base pairs

- TYPE:
- nucleic acid
- (B) (C) STRANDEDNESS:
- single
- TOPOLOGY: linear (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- ORIGINAL SOURCE: (iv)
  - (A) ORGANISM: TER-1
- 29: SEQ ID NO: SEQUENCE DESCRIPTION: (x)

AATCTAGAGC TAACAAAGCC CGAAAGGAAG

# (31) INFORMATION FOR SEQ ID NO. 30:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH:

28 base pairs

- (B) TYPE:
- nucleic acid
- (C) STRANDEDNESS:
- single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION:

SEQ ID NO:

30:

# TTCTGCAGAT ATAGTTCCTC CTTTCAGC 28

# (32) INFORMATION FOR SEQ ID NO. 31:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH:

70 base pairs

- (B) TYPE:
- nucleic acid

single

- (C) STRANDEDNESS:
- (D) TOPOLOGY:
  - linear
- (ii) MOLECULE TYPE: other nucleic acid(A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION:

SEQ ID NO:

31:

# TCGAGCCATG GCTTAAGGAT CCGTACGTCC GGAGCTAGCG GGCCCATCGA TACTAGTTAA 60

ATGCAGATCT 70

# (33) INFORMATION FOR SEQ ID NO. 32:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH:

70 base pairs

- (B) TYPE:
- nucleic acid
- (C) STRANDEDNESS:
- single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  (A) Description: /desc = "oligonucleotide"
- (iii) HYPOTHETICAL: YES
- (ix) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

5m7

### CTAGAGATCT GCATTTAACT AGTATCGATG GGCCCGCTAG CTCCGGACGT 60 **ACGGATCCTT**

AAGCCATGGC 70

### INFORMATION FOR SEQ ID NO. 33: (34)

- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH: (A)

29 base pairs

- TYPE: (B)
- nucleic acid
- STRANDEDNESS: (C)

double

- linear TOPOLOGY: (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

33:

## CATGAAATTA ATTCGACTCA CTATACGGA 29

### INFORMATION FOR SEQ ID NO. 34: (35)

- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH:
  - (A)
- 29 base pairs
- TYPE: (B)
- nucleic acid
- STRANDEDNESS: (C)
- double
- linear TOPOLOGY: (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

34:

## TTTAATTAAG CTGAGTGATA TGCCTCTAG 29

### INFORMATION FOR SEQ ID NO. 35: (36)

- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH: (A)

- (B) TYPE:
- nucleic acid
- STRANDEDNESS: (C)
- single
- linear TOPOLOGY: (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"



- HYPOTHETICAL: YES (iii)
- SEQ ID NO: SEQUENCE DESCRIPTION: (ix)

GATCCGGATT GAGGCTTAAG CAGTGGGTTC CCTAGTTAGC CAGAGAGCTC **CCAGGCTCAG** 

ATCTGGTCTA AT 72

- INFORMATION FOR SEQ ID NO. 36: (37)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

72 base pairs

- TYPE: (B)
- nucleic acid
- STRANDEDNESS: (C)
- single

35:

36:

- linear TOPOLOGY: (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQ ID NO: SEQUENCE DESCRIPTION: (ix)

CCGGATTAGA CCAGATCTGA GCCTGGGAGC TCTCTGGCTA ACTAGGGAAC 60

AGCCTCAATC CG

72

**CCACTGCTTA** 

- INFORMATION FOR SEQ ID NO. 37: (38)
  - SEQUENCE CHARACTERISTICS: (i)
    - (A) LENGTH:

66 base pairs

- TYPE: (B)
- nucleic acid
- STRANDEDNESS: (C)
- single
- TOPOLOGY: (D)
- linear
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQ ID NO: 37: SEQUENCE DESCRIPTION: (ix)

GATCCGGACC TTGAGGAGGT CTTCGTCGCT GTCTCCGCTT CTTCCTGCCA 60 **TAGGAGAGCC** 

TAAGGT

66

INFORMATION FOR SEQ ID NO. 38: (39)



- SEQUENCE CHARACTERISTICS: (i) 66 base pairs LENGTH: (A)
  - TYPE: (B)

nucleic acid

STRANDEDNESS: (C)

single

- TOPOLOGY:
- linear (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

38:

CCGGACCTTA GGCTCTCCTA TGGCAGGAAG AAGCGGAGAC AGCGACGAAG **ACCTCCTCAA** 

**GGTCCG** 

66

- INFORMATION FOR SEQ ID NO. 39: (40)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

65 base pairs

- TYPE: (B)
- nucleic acid
- STRANDEDNESS: (C)
- single
- TOPOLOGY: (D)
- linear
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

39:

GATCCGGATG GGAGGTGGGT CTGAAACGAT AATGGTGAGT ATCCCTGCCT 60 **AACTCTATTC** 

**ACTAT** 

65

- INFORMATION FOR SEQ ID NO. 40: (41)
  - SEQUENCE CHARACTERISTICS: (i)
    - LENGTH: (A)

65 base pairs nucleic acid

- (B)
- TYPE: STRANDEDNESS:
- single
- (C) TOPOLOGY:
- linear (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)



SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

40:

CCGGATAGTG AATAGAGTTA GGCAGGGATA CTCACCATTA TCGTTTCAGA CCCACCTCCC

**ATCCG** 

65

#### INFORMATION FOR SEQ ID NO. 41: (42)

- SEQUENCE CHARACTERISTICS: (i)
  - (A) LENGTH:

67 base pairs

(B) TYPE: nucleic acid

STRANDEDNESS: (C)

single

TOPOLOGY:

- linear (D)
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

41:

GATCAGCATG CCTGCAGGTC GACTCTAGAC CCGGGTACCG AGCTCGCCCT 60 **ATAGTGAGTC** 

**GTATTAT** 67

INFORMATION FOR SEQ ID NO. 42: (43)



- SEQUENCE CHARACTERISTICS: (i)
  - LENGTH: (A)

67 base pairs

(B) TYPE: nucleic acid

- (C)
- single STRANDEDNESS:
- TOPOLOGY: (D)
- linear
- MOLECULE TYPE: other nucleic acid (ii) (A) Description: /desc = "oligonucleotide"
- HYPOTHETICAL: YES (iii)
- SEQUENCE DESCRIPTION: (ix)

SEQ ID NO:

42:

CCGGATAATA CGACTCACTA TAGGGCGAGC TCGGTACCCG GGTCTAGAGT 60 **CGACCTGCAG** 

**GCATGCT**